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Application No. 10/623,433
Attorney Docket No. 1451-0001

AMENDMENTS TO THE SPECIFICATION

Please make the following corrections to the specification:

Please replace paragraph [0004] with the following amended paragraph:

[0004] In addition, in some applications, it is desirable to deliberately add distortion to the sound to affect the tonal qualities. For example, deliberately adding distortion to the sound of an electric guitar began in the 1950's when rock music was becoming popular. At this time, the only techniques that an electric guitarist has had to increase the amount of distortion into his sound was to increase the volume of a vacuum tube amplifier by (1) picking the strings of the guitar harder, (2) turning the volume of the guitar higher, or (3) turning the volume of the amplifier up; or some combination or variation of all three techniques. However, these techniques have the drawbacks that the guitarist usually could still not achieve the desired level of distortion, and/or high sound pressure levels were created that many people find uncomfortable or even distressing.

Please replace paragraph [0021] with the following amended paragraph:

[0021] Related methods of processing an input signal that includes a band of frequencies to reduce lower frequency intermodulation distortion includes filtering the input signal with the first filter of the second or third order type, supplying the filtered signal to the gain stages, amplifying the filtered signal in the gain stages, supplying the amplified signal to a second filter of the low pass type, filtering the amplified signal in the second filter, and supplying the signal from the second filter as the output signal of the signal

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processor. The methods also include changing at least some of the corner frequencies in the frequency response curve of the first filter to change or customize the frequency response of the first filter. The methods further include selecting one of the at least two gain controls in the first filter.

Please replace paragraph [0060] with the following amended paragraph:

[0060] The gain stages 45-46 may be combined into a single gain stage, or constitute a plurality of individual gain stages coupled together in the known cascade configuration.